

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION
MONITORING AND REPORTING PROGRAM R5-2024-xxxx
FOR
BARSOTTI FAMILY LLC, BARSOTTI JUICE COMPANY, AND GAEL BARSOTTI
BARSOTTI JUICE COMPANY
EI DORADO COUNTY

This Monitoring and Reporting Program (MRP) for the Barsotti Juice Company is issued pursuant to Water Code section 13267.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled.

The time, date, and location of each sample shall be recorded on the sample chain of custody form. All analyses shall be performed in accordance with the *Standard Provisions and Reporting Requirements for Waste Discharge Requirements*, 1 March 1991 ed. (Standard Provisions and Reporting Requirements [SPRRs]). Field test instruments (such as those used to measure pH, electrical conductivity, dissolved oxygen, wind speed, and precipitation) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments.
2. The instruments are field calibrated at the frequency recommended by the manufacturer.
3. The instruments are serviced and/or calibrated at the manufacturer's recommended frequency.
4. Field calibration reports are submitted as described in the "Reporting" section of the MRP.

Laboratory analytical procedures shall comply with the methods and holding times specified in the following (as applicable to the medium to be analyzed):

1. Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater (Environmental Protection Agency [EPA]);
2. Test Methods for Evaluating Solid Waste (EPA);
3. Methods for Chemical Analysis of Water and Wastes (EPA);
4. Methods for Determination of Inorganic Substances in Environmental Samples (EPA); Standard Methods for the Examination of Water and Wastewater (APHA/AWWA/WEF); and
5. Soil, Plant and Water Reference Methods for the Western Region (WREP 125).

Approved editions shall be those that are approved for use by the U.S. Environmental Protection Agency or the State Water Resources Control Board’s Environmental Laboratory Accreditation Program (ELAP). The Discharger may propose alternative methods for approval by the Executive Officer. Where technically feasible, laboratory reporting limits shall be lower than concentrations that implement applicable water quality objectives/limits for the constituents to be analyzed.

INFLUENT MONITORING

Samples of influent shall be collected after the storage tanks prior to entering the treatment system. At a minimum, influent monitoring shall consist of the following:

Constituent	Units	Sample Type	Sampling Frequency	Reporting Frequency
Daily Flow	gpd	Meter Observation	Daily	Monthly
Monthly Total Influent Flow	gallons	Calculation	-	Monthly
BOD ₅	mg/L	Grab	Weekly	Monthly
pH	Standard Units	Grab	Monthly	Monthly

EFFLUENT MONITORING

After the treatment and storage ponds are installed, samples of effluent shall be collected downstream from the last connection (storage pond) through which treated wastewater can be distributed to the land application areas. At a minimum, effluent monitoring shall consist of the following:

Constituent	Units	Sample Type	Sampling Frequency	Reporting Frequency
BOD ₅	mg/L	Grab	Monthly	Monthly
Electrical Conductivity	µmhos/cm	Grab	Monthly	Monthly
TDS	mg/L	Grab	Monthly	Monthly
FDS	mg/L	Grab	Monthly	Monthly
Nitrate as Nitrogen	mg/L	Grab	Monthly	Monthly
Total Kjeldahl Nitrogen	mg/L	Grab	Monthly	Monthly
Ammonia	mg/L	Grab	Monthly	Monthly
Total Nitrogen	mg/L	Grab	Monthly	Monthly
pH	Standard Units	Grab	Monthly	Monthly
Standard Minerals, see Note 1	mg/L	Grab	Annually	Annually

Note 1: Standard minerals shall include, at a minimum, the following elements and compounds: dissolved arsenic, boron, calcium, chloride, dissolved iron, magnesium, dissolved manganese, potassium, sodium, sulfate, total alkalinity (including alkalinity series), and hardness.

POND MONITORING

After the treatment and storage ponds are installed, each pond shall be monitored as follows. If the pond is empty on the scheduled monitoring date, the Discharger shall report the freeboard monitoring result as “dry”. The Discharger shall operate and maintain the pond liners beneath Ponds 1 and 2 in accordance with its Liner Operation and Maintenance Plan pursuant to Provision H.1. b.

Constituent	Units	Sample Type	Sampling Frequency	Reporting Frequency
Dissolved Oxygen	mg/L	Grab	Weekly	Monthly
Freeboard	0.1 feet	Measurement	Weekly	Monthly
Odors	--	Observation	Weekly	Monthly
Solids Depth	Nearest 0.1 feet	Observation	Annually	Annually
Levee condition	--	Observation	Weekly	Monthly
Liner condition	--	Observation	Monthly	Monthly
Leachate Flow see Note 1	gpm	Calculate	Monthly	Monthly

Note 1: The Discharger shall calculate the leachate rate to determine the leakage rate. If the leakage rate exceeds the Action Leakage Rate (as specified in the Liner Operation and Maintenance Plan pursuant to Provision H.1.b of the WDRs), the Discharger shall notify Central Valley Water Board staff within seven days and take the necessary action to inspect and repair the primary liner system, if applicable.

Samples shall be collected at a depth of one foot, opposite the inlet. Dissolved oxygen monitoring is to be performed between the hours of 8:00 a.m. and 10:00 a.m., as feasible. Containment levees shall be observed for signs of seepage or surfacing water along the exterior toe of the levees.

LAND APPLICATION AREA MONITORING

The effluent shall be applied to the LAAs evenly in order to prevent runoff from the LAAs and/or ponding condition at the LAAs. Monitoring of the LAAs shall be conducted when the disposal areas are used, and the results shall be included in the monthly monitoring report. Evidence of erosion, saturation, irrigation runoff, or the presence of nuisance conditions shall be noted in the report. Effluent monitoring results shall be used in calculations to ascertain loading rates at the LAAs. Monitoring of the LAAs shall include the following:

Constituent	Units	Sample Type	Sampling Frequency	Reporting Frequency
Wastewater Flow to LAAs	gpd	Meter Observation	Daily	Monthly
Rainfall, see note No.1	inches	Observation	Daily	Monthly
Acreage Applied, see note No.2	acres	Observation	Daily	Monthly
Hydraulic Loading Rate	inch/day	Calculated	Daily	Monthly
Total Nitrogen Loading Rate, see note No.3	lbs/ac/month	Calculated	Monthly	Monthly
BOD ₅ Loading Rate, see note No.4	lb/ac/day	Calculated	Daily	Monthly
Any Runoff / Ponding	--	Observation	Daily	Monthly

Notes:

- 1) Precipitation data obtained from the nearest National Weather Service rain gauge is acceptable.
- 2) Specific disposal fields shall be identified.
- 3) Calculated average for each land application area.
- 4) BOD₅ loading shall be calculated using the daily applied volume of wastewater, actual application area, and most recent BOD₅ results for the wastewater.

At least once per week when the LAAs are being used, the entire LAAs shall be inspected to identify any equipment malfunction or other circumstances that might allow irrigation runoff to leave the irrigation area and/or create ponding conditions. Odors that have the potential to be objectionable at or beyond the property boundary shall be noted and mitigated, as necessary. A daily log of each inspection shall be kept at the facility and be submitted with the monthly monitoring reports. If the LAAs are not used, then the monthly monitoring reports shall state so.

SLUDGE AND SOLID WASTE MONITORING

The Discharger shall evaluate the amount of solids at the bottom of ponds once year and remove them as needed to maintain storage capacity. The Discharger shall report the handling and disposal of all solids (e.g., screenings, grit, sludge, biosolids, etc.) generated at the wastewater system. Records shall include the name/contact information for the hauling company, the type and amount of waste transported, the date removed from the wastewater system, the disposal facility name and address, and copies of analytical data required by the entity accepting the waste. These records shall be submitted as part of the annual monitoring report.

WATER SUPPLY MONITORING

A sampling station shall be established where a representative sample of the water supply can be obtained. Water supply monitoring may be substituted with the annual report of the supplying agency. Water supply monitoring shall include at least the following:

Constituent	Units	Sample Type	Sampling and Reporting Frequency
Total Dissolved Solids	mg/L	Grab	Annually
Electrical Conductivity	µmhos/cm	Grab	Annually
Standard Minerals	mg/L	Grab	Annually

Standard Minerals shall include, at a minimum, the following elements and compounds: boron, calcium, dissolved iron, magnesium, dissolved manganese, sodium, potassium, chloride, sulfate, total alkalinity (including alkalinity series), and hardness.

REPORTING

All regulatory documents, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: centralvalleysacramento@waterboards.ca.gov

Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to the following address:

Central Valley Regional Water Quality Control Board
ECM Mailroom
11020 Sun Center Drive, Suite 200
Rancho Cordova, California 95670

To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any correspondence used to transmit documents to this office:

Facility Name: Barsotti Juice Company
Program: Non-15 Compliance
Order: R5-2024-XXXX
CIWQS Place ID: CW-882410

In accordance with California Business and Professions Code sections 6735, 7835, and 7835.1, engineering and geologic evaluations and judgments shall be performed by or under the direction of registered professionals competent and proficient in the fields pertinent to the required activities. All technical reports specified herein that contain workplans for investigations and studies, that describe the conduct of investigations and studies, or that contain technical conclusions and recommendations concerning engineering

and geology shall be prepared by or under the direction of appropriately qualified professional(s), even if not explicitly stated. Each technical report submitted by the Discharger shall bear the professional's signature and stamp.

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, pond, etc.), and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with the Waste Discharge Requirements and spatial or temporal trends, as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported in the next scheduled monitoring report.

In addition to the requirements of Standard Provision C.3, monitoring information shall include the method detection limit (MDL) and the Reporting limit (RL) or practical quantitation limit (PQL). If the regulatory limit for a given constituent is less than the RL (or PQL), then any analytical results for that constituent that are below the RL (or PQL) but above the MDL shall be reported and flagged as estimated.

If violations occur, the Discharger shall notify the Central Valley Water Board within 10 business days after receiving the analytical laboratory reports.

A. Monthly Monitoring Reports

Monthly reports shall be submitted to the Regional Board by the **1st day of the second month** following the end of the reporting period (i.e. the January monthly report is due by 1 March). At a minimum, the reports shall include:

1. Results of the influent, effluent, pond, and land application area monitoring;
2. Calculated **irrigation average BOD loading rate** for each LAA using the following formula:

$$M = \frac{8.345(CV) + M_x}{AT}$$

Where:

M = mass of BOD applied to each LAA field in lb/ac/day/irrigation cycle

C = concentration of BOD in mg/L based on the most recent monitoring result

V = volume of wastewater applied to the LAA field in millions of gallons during the irrigation

A = area of the LAA field irrigated in acres

T = Irrigation cycle length in days (from the first day water was applied to the last day of the drying time)

M_x = BOD mass from other sources (e.g., cattle manure, Settling Pond solids, and residual solids) in pounds

8.345 = unit conversion factor

3. Calculated **nitrogen loading rate** for each LAA using the following formula:

$$M = \sum_{i=1}^{12} \frac{(8.345(C_i V_i) + M_x)}{A}$$

Where:

M = mass of nitrogen applied to LAA in lb/ac/yr.

C_i = Monthly average concentration of total nitrogen for month i in mg/L.

V_i = volume of wastewater applied to the LAA during calendar month i in millions of gallons.

A = area of the LAA irrigated in acres.

i = the number of the month (e.g., Jan. = 1, Feb. = 2, etc.).

M_x = nitrogen mass from other sources (e.g., fertilizer, manure, and compost) in pounds per acre.

8.345 = unit conversion factor.

4. Copies of inspection logs;
5. A comparison of the monitoring data to the discharge specifications and an explanation of any violation of those requirements;
6. Date(s) on which the monitoring instruments were calibrated.

B. Annual Report

In addition to the monthly monitoring reports, an Annual report shall be prepared. The Annual Report shall be submitted to the Central Valley Water Board by **1 February** each year. The Annual Report shall include the following:

1. The results from annual monitoring of the effluent and water supply;
2. Annual total influent flow rate;
3. Effluent annual average of EC;
4. Effluent annual average of total nitrogen concentration;

5. The results of monitoring any sludge from the ponds;
6. An evaluation of the pond liner condition and leak detection system. The annual report shall include procedures for replacement or repair of the pond liner if the liner is replaced or repaired during the year based on *Liner Operation and Maintenance Plan*, and
7. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the WDRs;
8. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program;
9. Based on monitoring data, an evaluation of the effectiveness of the treatment or control measures implemented to date;
10. Tabular and graphical summaries of all data collected during the year, and
11. Monitoring equipment maintenance and calibration records, as described in Section C.4 of the SPRRs, shall be maintained by the Discharger and provided upon request by the Central Valley Water Board.

A letter transmitting the self-monitoring reports shall accompany each report. Such a letter shall include a discussion of requirement violations found during the reporting period, and actions taken or planned for correcting noted violations, such as operation or facility modifications. If the Discharger has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory.

The transmittal letter shall contain the penalty of perjury statement by the Discharger, or the Discharger's authorized agent, as described in the Standard Provisions General Reporting Requirements Section B.3.

ENFORCEMENT

If, in the opinion of the Executive Officer, the Discharger fails to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement, may issue a complaint for administrative civil liability, or may take other enforcement actions. Failure to comply with this Order may result in the assessment of Administrative Civil Liability of up to \$1,000 per violation, per day, depending on the violation, pursuant to Water Code section 13268. The Central Valley Water Board reserves the right to take any enforcement actions authorized by law.

ADMINISTRATIVE REVIEW

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Board for administrative review in accordance with Water Code section 13320, and California Code of Regulations, title 23, section 2050 et seq. To be timely, the State Water Board must receive the petition by 5pm on the 30th day after the date of this Order, except that if the 30th day falls on a Saturday, Sunday or State Holiday, the petition must be received by the State Water Board by 5pm on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet on the [Water Boards Public Notice web page](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) (http://www.waterboards.ca.gov/public_notices/petitions/water_quality).

I, PATRICK PULUPA, Executive Officer, do hereby certify the forgoing is a full, true and correct copy of the Monitoring and Reporting Program R5-2024-XXXX issued by the California Regional Water Quality Control Board, Central Valley Region, on XX June 2024.

Ordered by: _____
for PATRICK PULUPA, Executive Officer